



FHC[®]
FRAMELESS HARDWARE COMPANY

INSTALLATION INSTRUCTIONS



MONOLITHIC
TEMPERED
GLASS



LAMINATED
TEMPERED
GLASS

FHC HP110 Series Steincraft[®] Bottom Latching Panic Devices

STEINCRAFT[®]

PANIC HANDLES | UL CE RT IFIED S A45616

HERC-DOOR[®]

U.S. Patent Nos. 11,060,341 and 11,187,323

FHC
MANUFACTURING

DESIGNED & MANUFACTURED BY
FRAMELESS HARDWARE COMPANY



FRAMELESS HARDWARE COMPANY LLC
2323 Firestone Blvd., South Gate, CA 90280
Toll Free: (888) 295-4531 Fax: (323) 336-8307
FHC-USA.COM

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FHC HP110 SERIES SPECIFICATIONS

GLASS OPTIONS

1/2"	(12mm) Monolithic Tempered Glass
5/8"	(16mm) Monolithic Tempered Glass
3/4"	(19mm) Monolithic Tempered Glass
9/16"	(13.2mm) Tempered-Laminated
13/16"	(21.52mm) Tempered-Laminated

PRODUCT CONSTRUCTION

<u>Base Material:</u>	304 Stainless Steel 385 Brass
<u>Wall Thickness:</u>	.065 SS Welded Tubing .080 Brass Tubing
<u>Bend Support:</u>	Solid Aluminum Filler

RECOMMENDED MAXIMUM DOOR HEIGHTS

PER GLASS SIZES:

1/2" (12mm) and 9/16" (13.52 mm) Glass

Exterior Applications Max Height: 8'- 0" (2.44 m)

Interior Applications Max Height: 8'- 6" (2.59m)

5/8" (16mm) and 3/4" (19mm) and 13/16" (21.52)

Exterior Applications Max Height: 8'- 6" (2.59m)

Interior Applications Max Height: 9'-0" (2.74m)

FINISHES

Brushed Stainless	(BS)
Polished Stainless	(PS)
Satin Brass	(SB)
Polished Brass	(PB)
Matte Black	(MB)
Oil Rubbed Bronze	(ORB)
Powder Coat	(PT)

TOOLS REQUIRED

Item # SPW1 Spanner Wrench

3mm, 9mm, and 10mm

1/4" Hex Wrench

Adjustable Pliers with Protective Jaws

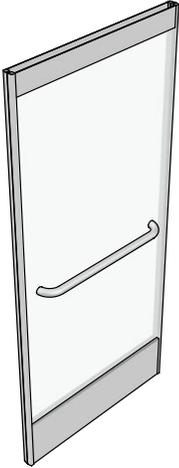
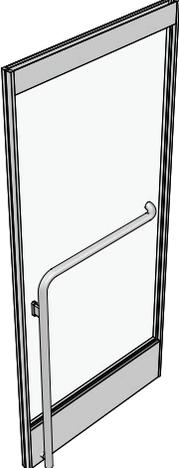
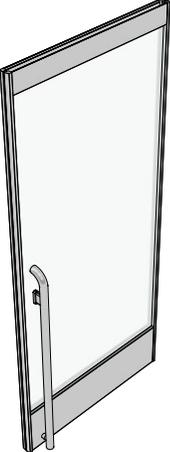
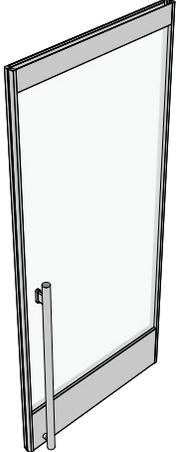
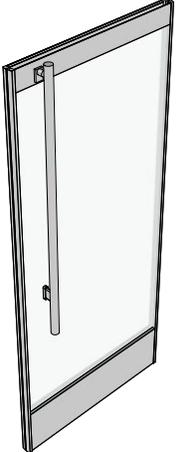
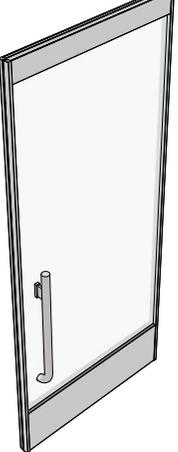
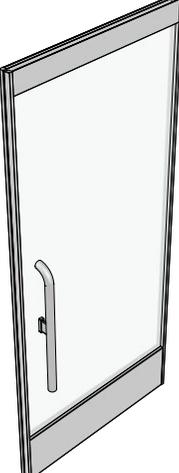
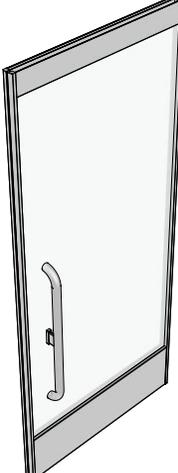
Rubber Mallet

Medium-Strength Thread Locker

GLASS FABRICATION

Specific glass fabrication details will be noted on the Shop Drawings provided with your order.

EXTERIOR PULL HANDLE OPTIONS

				
HANDLE A	HANDLE C	HANDLE E	HANDLE F	HANDLE FS
				
HANDLE K	HANDLE KS	HANDLE L	HANDLE LS	HANDLE N
				
		HANDLE P	HANDLE Y	Z NO PULL

UNPACKING PANIC DEVICES FOR GLASS MOUNTED DOORS

VISUAL INSPECTION

Orders placed with FHC for panic devices without doors are shipped assembled and tested on shipping boards (Figure 5).

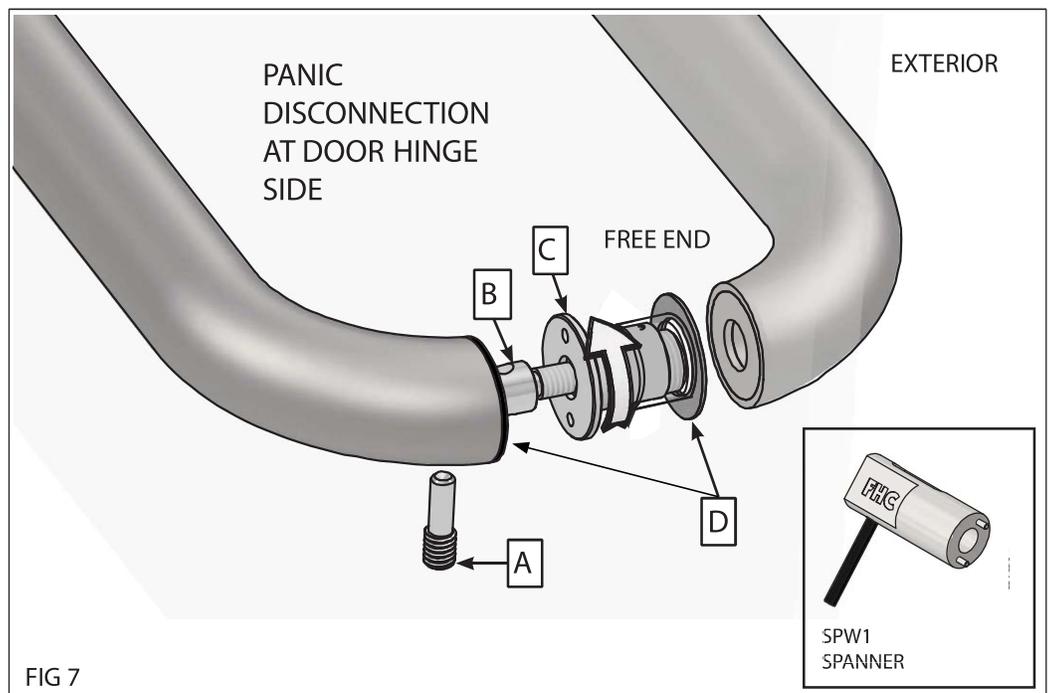
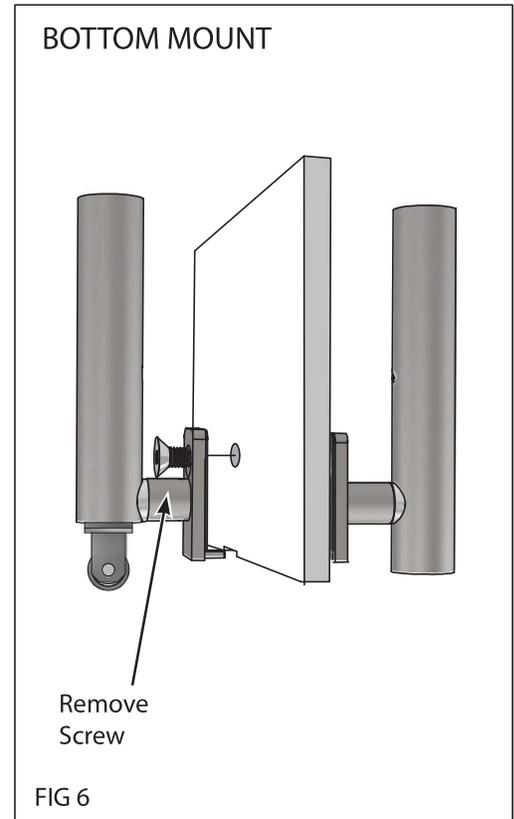
Before removal, check both sides for damage as you remove the protective wrap. Insert the provided key, if included, and test the handle's operation.

Make note of the attachment method to the shipping board. Attachment to the door will be similar.

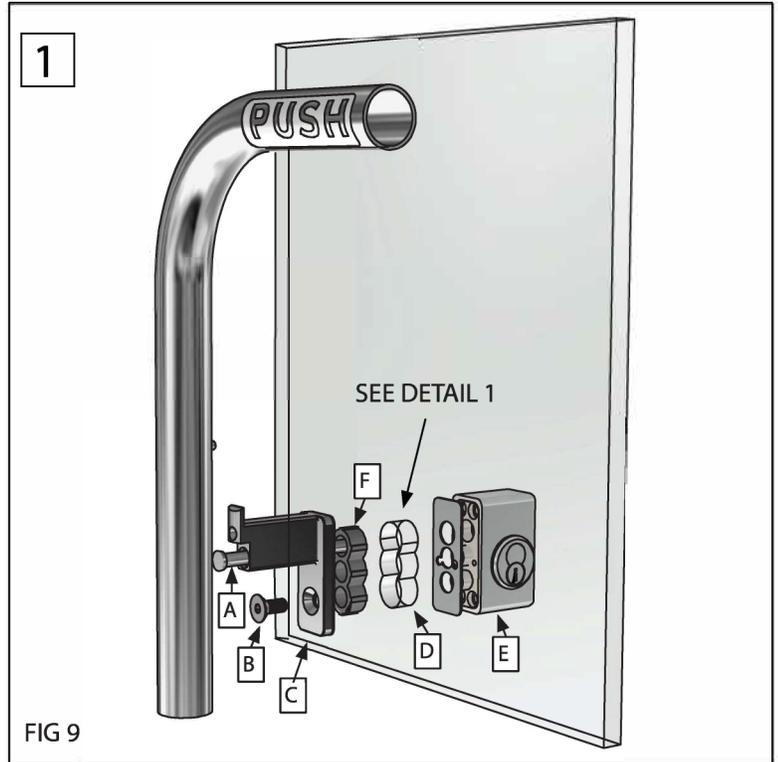
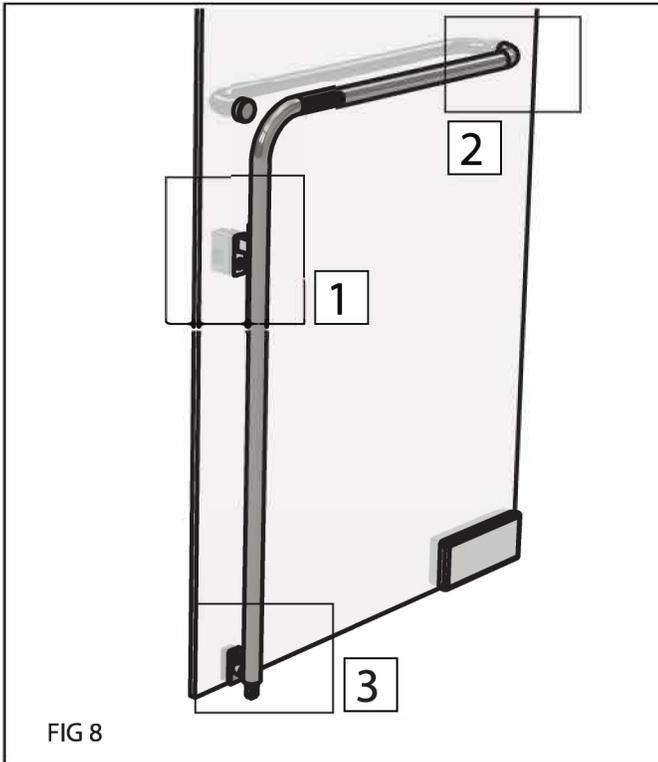
SYSTEM REMOVAL

To disconnect the bottom glass-mount assembly remove the socket flat head screw. Pull the mid section of the rail back slightly to verify disconnect (Figure 6).

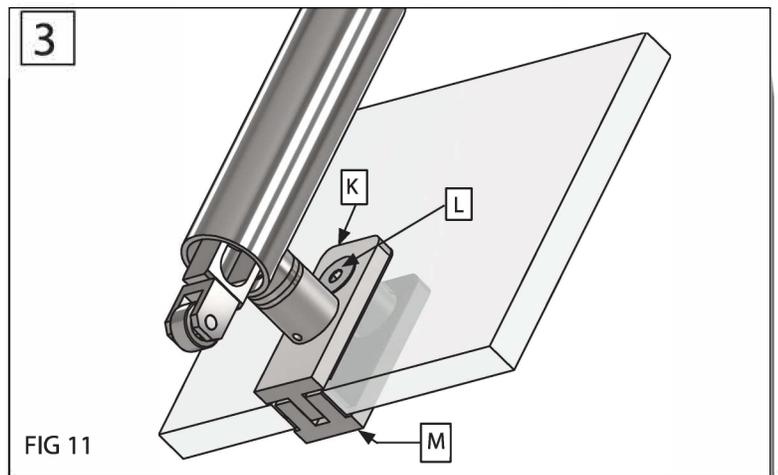
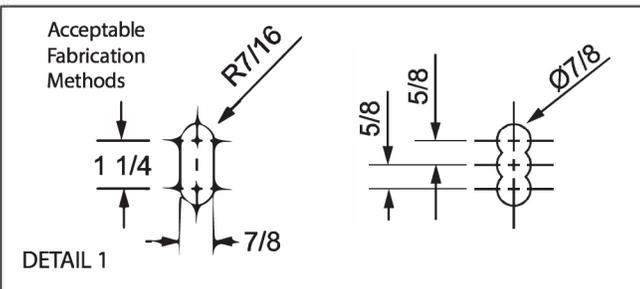
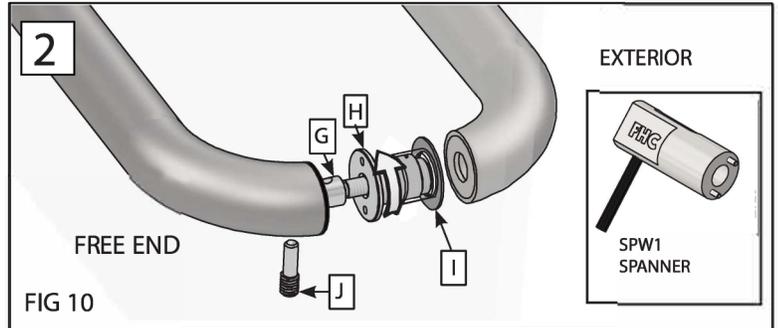
To disconnect the free end of the handle, remove the threaded pin (A) and pull interior side away from board slightly to verify disconnect exposing threaded adapter (B). Use the The FHC SPW1 spanner wrench to turn HP022 flanged connector (C). Remove and retain all rubber washers (D) (Figure 7).



GLASS MOUNTED PANIC DEVICES



- A- Actuator Pin
- B- 5/16"-18 X 3/4" Hex Flathead Screw
- C- Actuator Post
- D- Fabricated Hole
- E- Single Access Key Device
- F- Actuator Alignment Bushing
- G- Handle Pivot Pin
- H- Handle Spanner Nut
- I- Rubber Glass Washer
- J- Threaded Pin
- K- Panic Latch Mounting Bracket (Interior)
- L- 5/16"-18 X 3/4" Hex Flathead Screw
- M- Panic Latch Mounting Bracket (Exterior)



UNPACKING PANICS NO HERC® RAIL PANIC DEVICES

VISUAL INSPECTION

HP110 ships fully assembled on a 1/2" plywood carrier sheet (Figure 12).

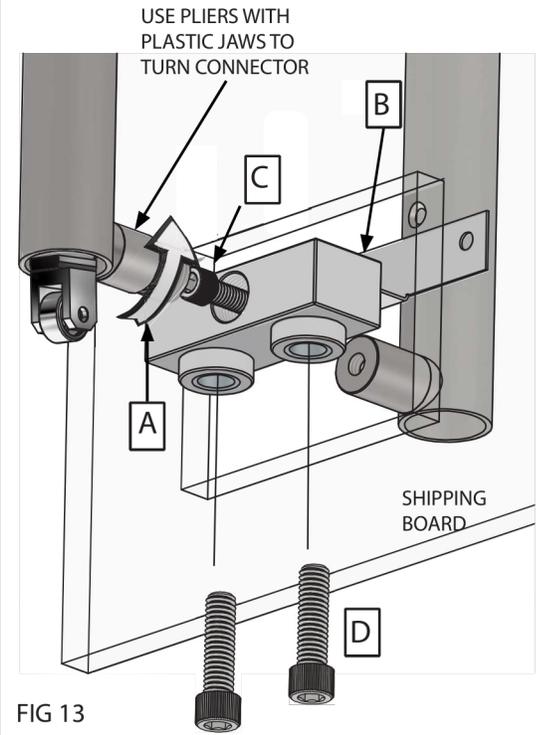
Before removal, check both sides for shipping damage.

Depress the handle and verify that the bottom roller retracts properly.

Make note of the attachment method to the shipping board. Attachment to the door will be similar.

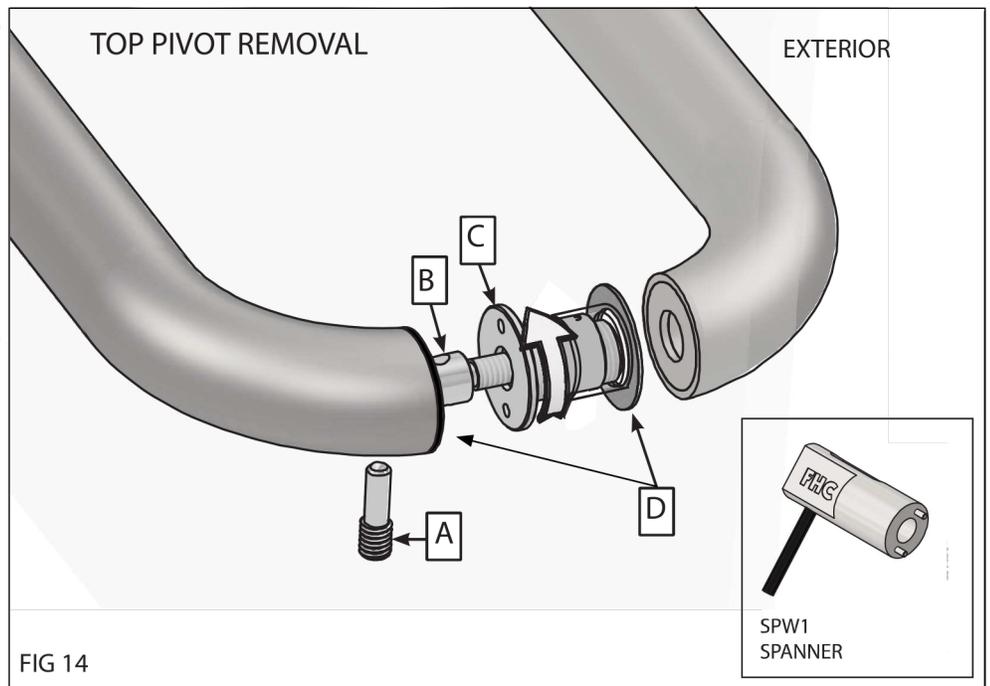


BOTTOM LATCH REMOVAL

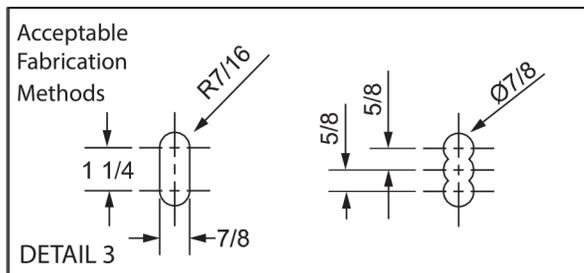
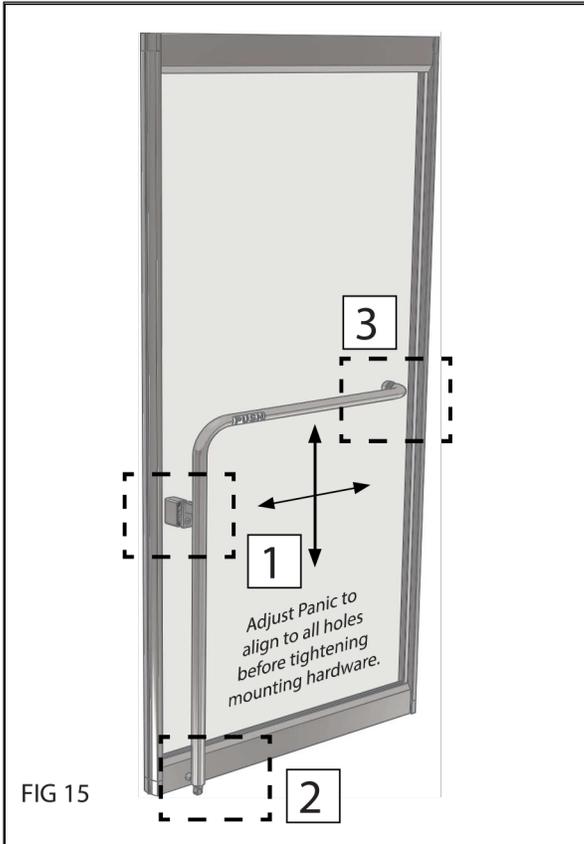


Remove socket head screw (C) and pull exterior rail back slightly to verify disconnect. Remove the two screws (D) to free the rail adapter block (Figure 13).

To disconnect the handle free end, remove threaded pin (A) and pull interior side away from board slightly to verify disconnect by exposing the threaded adapter (B). Use the FHC SPW1 spanner wrench to turn HP022 flanged connector (C). Remove and retain all rubber washers (D) (Figure 14).



HERC-DOOR® STYLE DOOR: PANIC & ACTUATOR INSTALLATION



PANIC DEVICE WITH LOCK INSTALLATION

Refer to (Figure 16) for the following steps.

STEP 1: Insert the [#6] actuator alignment bushing into the [#7] fabricated holes. See hole fab note (Detail 13).

STEP 2: Align the [#3] actuator post and [#8] actuator alignment bushing to the [#7] holes.

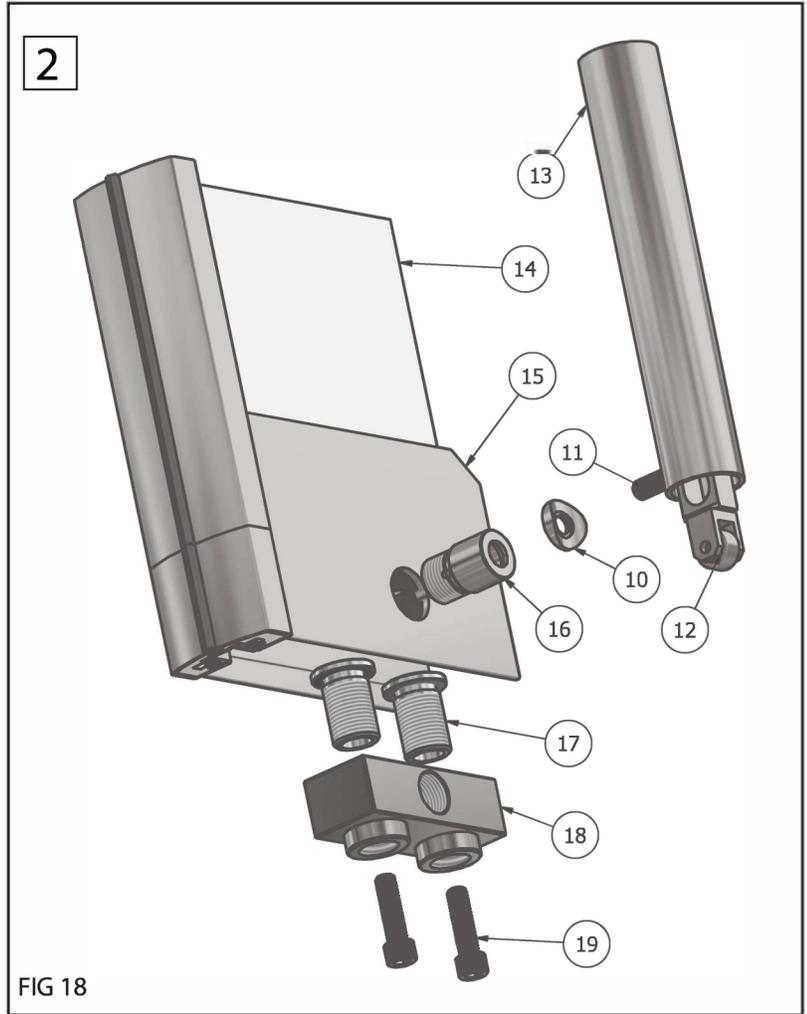
STEP 3: Insert actuator pin [#4] through the hole and align to the [#9] lock box with matching gasket.

STEP 4: Clamp the actuator post and lock box to the glass using the [#5] .375-16 X .75 hex flat-head screw.

STEP 5: With the [#2] dogging pin in the up position, hook the handle [#1] over the [#3] actuator post.

3 Use (Figure 14), page 6, for assembly reference.

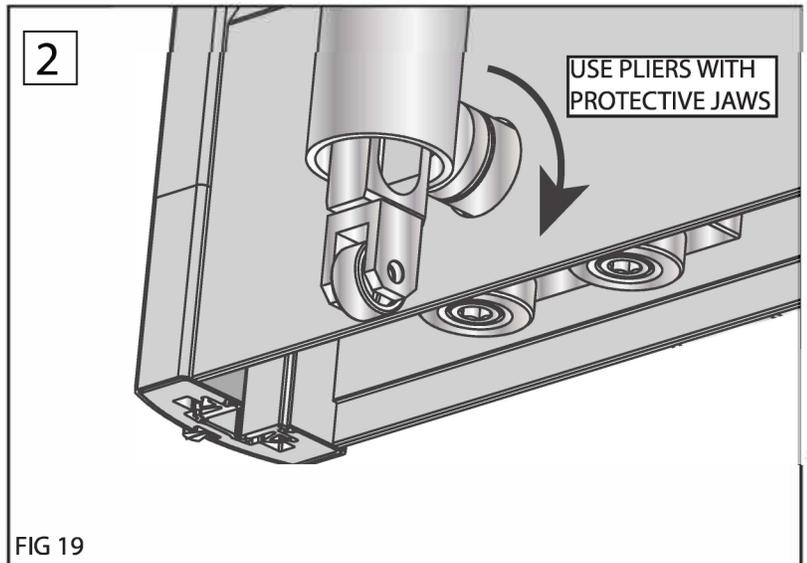
HERC-DOOR® BOTTOM LATCH INSTALLATION



INSTALLATION CONTINUED

Refer to (Figure 18) for the following steps.

- STEP 6: Insert the [#17] threaded inserts into [#18] adapter block.
- STEP 7: Attach the [#18] adapter block assembly to the bottom rail with (2) [#19] .375-16 X 1-1/4" SHCS fasteners.
- STEP 8: Thread the [#16] pivot assembly into the [#18] adapter block assembly through the 7/8" hole.
- STEP 9: Turn the [#16] pivot assembly using adjustable pliers with PROTECTIVE JAWS jaws to avoid scratching (Figure 19).



UNPACKING ALUMINUM FRAME DOOR PANIC DEVICES

VISUAL INSPECTION

FHC HP110 Panic Devices ships fully assembled on a 1/2" plywood carrier sheet (Figure 20).

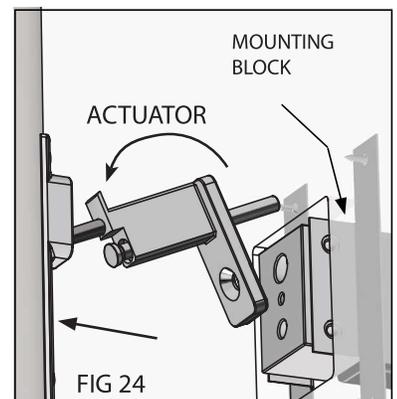
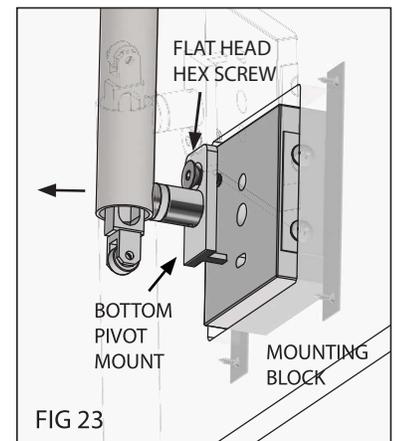
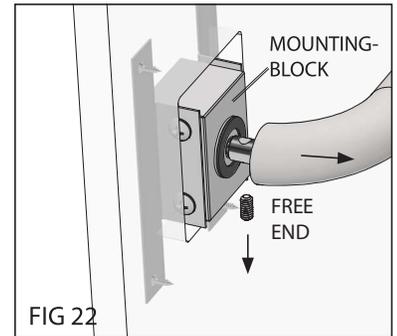
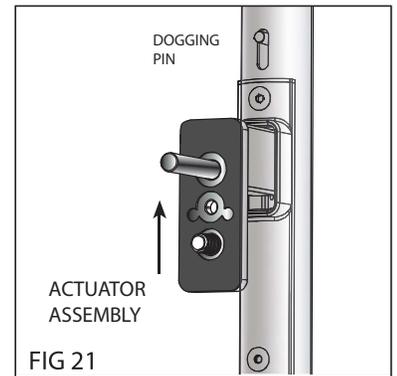
Before removal, check both sides for shipping damage. Depress the handle and verify that the bottom roller retracts properly.

Make note of the attachment method to the shipping board. Attachment to the door will be similar.

DO NOT DETACH THE ALUMINUM MOUNTING BLOCKS FROM SHIPPING BOARD BEFORE REMOVING PANIC ASSEMBLIES.

- STEP 1: Verify that the Dogging Pin is in the DOWN position. (Figure 21).
- STEP 2: Remove the hex set screw from the top pivot end and pull away from the mounting block (Figure 22).
- STEP 3: Remove the flathead hex screw from the Bottom Pivot Mount (Figure 23).
- STEP 4: Remove the flathead hex screw from the Actuator Post and pull the panic assembly away from the shipping board.

PLEASE NOTE: Keep the aluminum mounting blocks provided with your order. They will be required for your FHC Steincraft Panic Device installation. The mounting blocks are specifically designed to fit FHC Aluminum doors. Non-FHC doors may not be compatible or require modification before use.



UPPER PIVOT INSTALLATION - ALUMINUM FRAMED DOORS

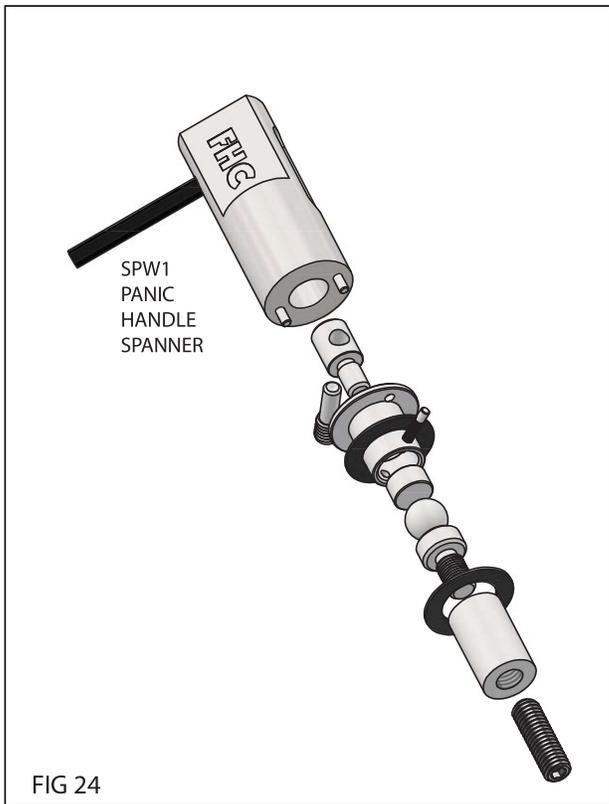
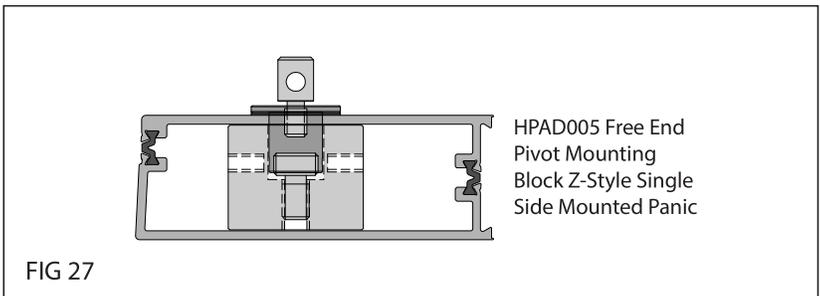
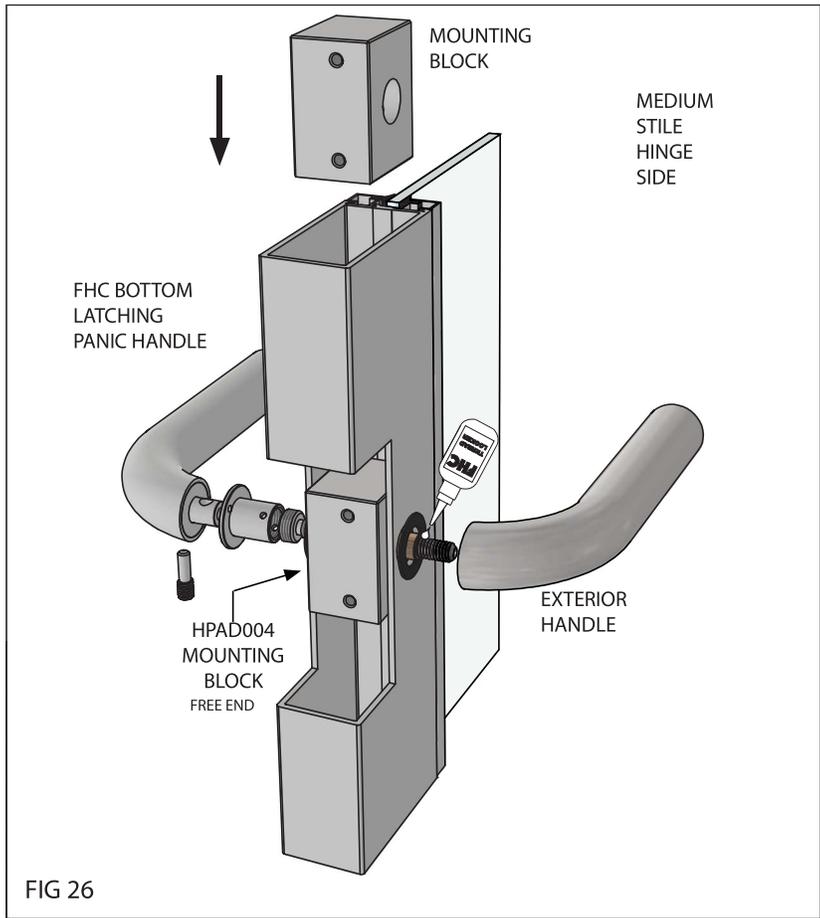
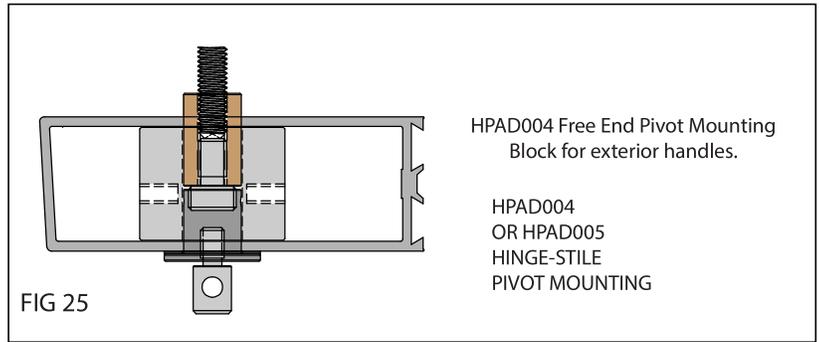
Installing Mounting Blocks

FHC Mounting Blocks provide a firm base for panic handles
 Mounting Blocks are required at the upper pivot position and the actuator position.

Top Pivot End (Hinge Side)

Insert Mounting Block HPAD004 (Back-to Back) handle mount, or HPAD005 (Z-Style) handle mount. Position the block inside the stile by inserting it into either end and pushing it into position using a wooden stick.

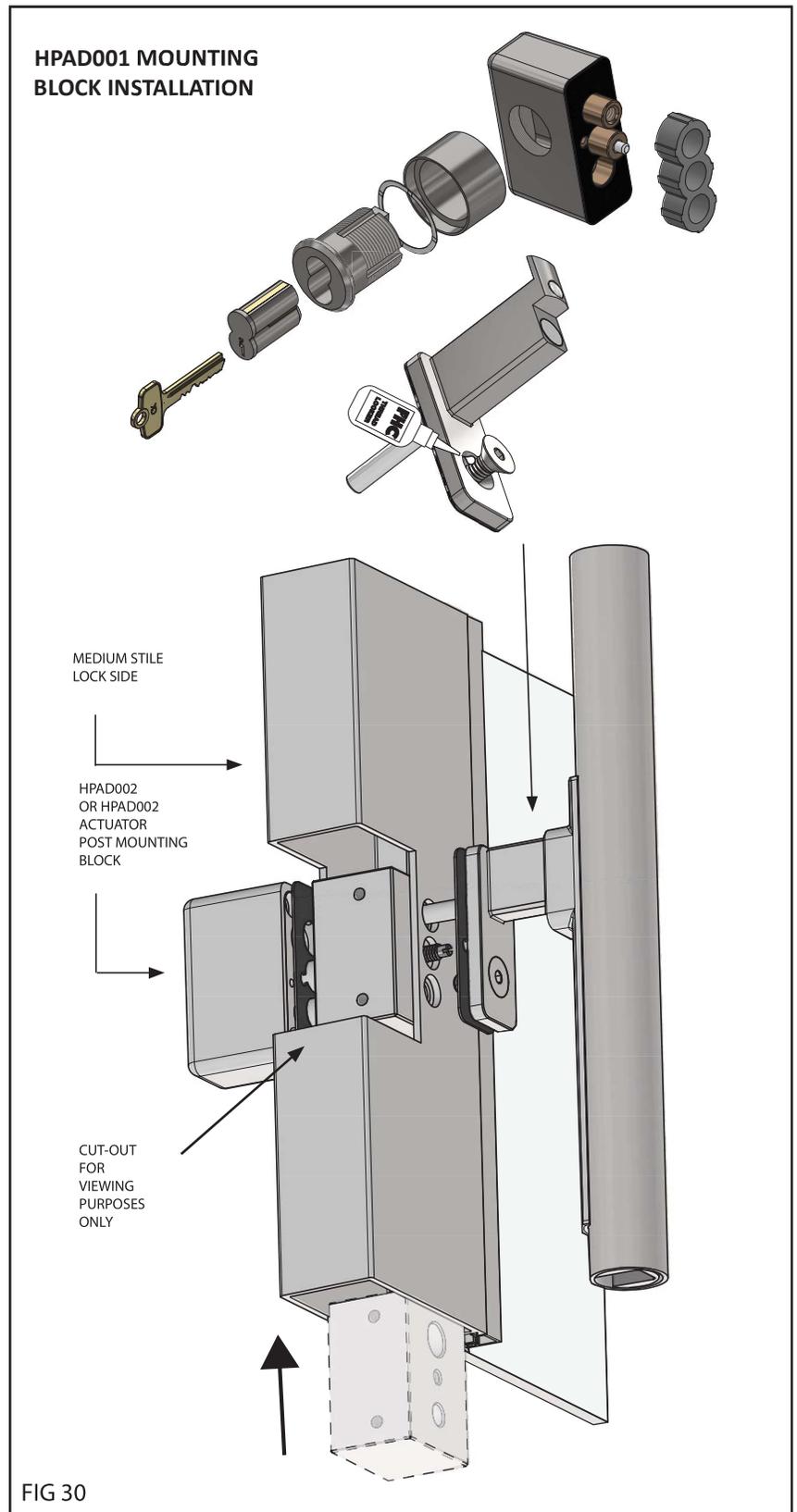
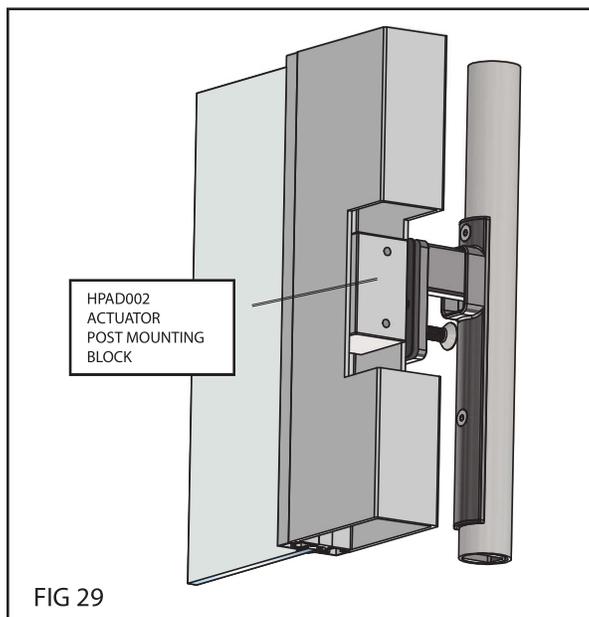
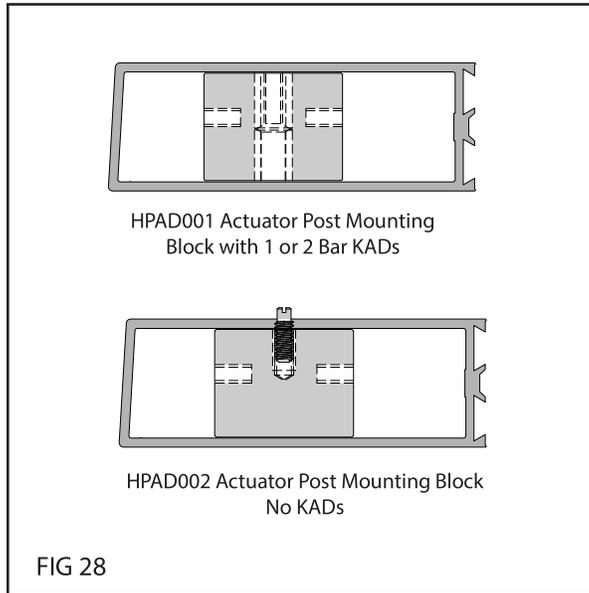
Assemble the mounting hardware through the frame holes while threading the mounting block. Lightly snug the handle hardware using SPW1 Panic Handle Spinner (Figure 24). Do not over tighten to allow adjustment at a later point.



ALUMINUM FRAME BOTTOM LATCHING PANIC DEVICES

Installing Actuator Section

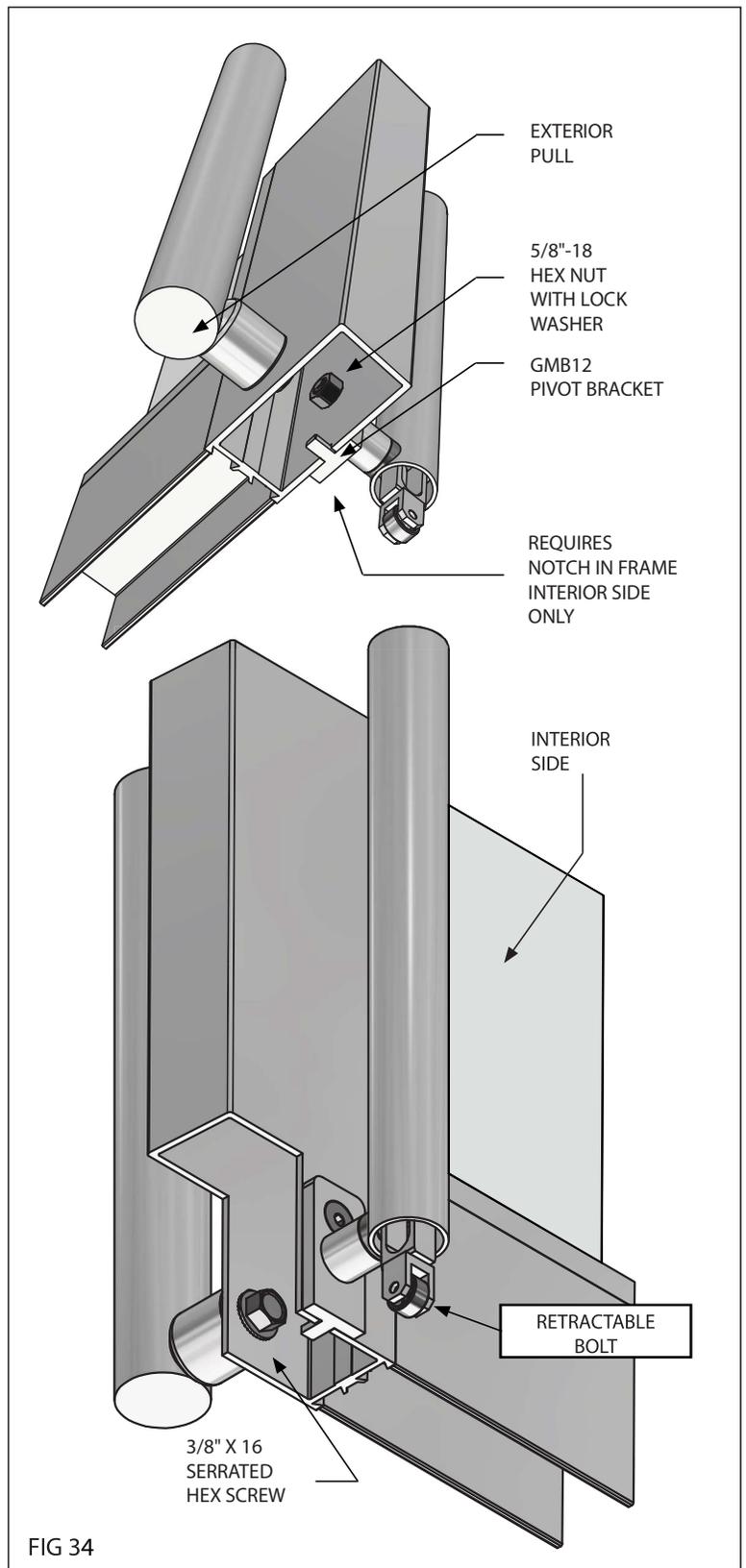
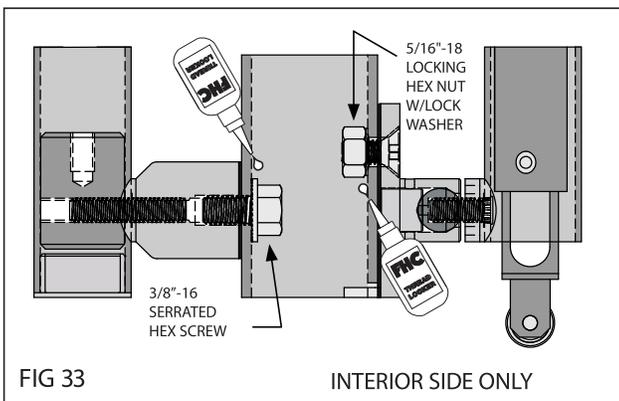
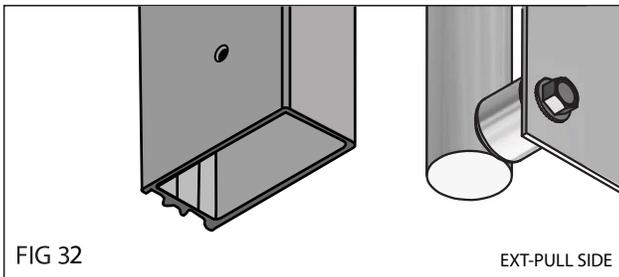
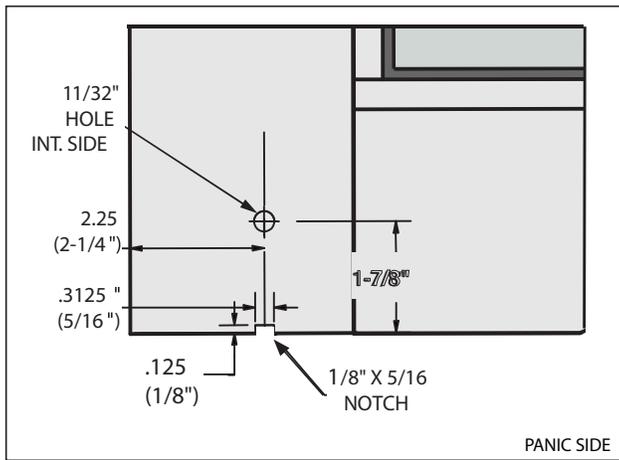
Insert the Actuator Post Mounting Block into the lock stile and position it to align with the triple hole pattern. Use (Figure 28) to identify the correct mounting block. Install actuator and related hardware as shown in (Figure 29).



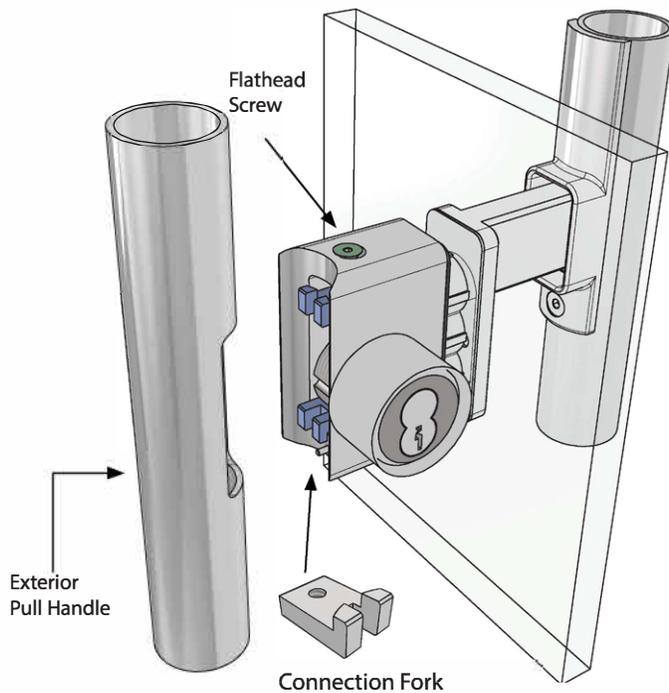
Installing Mounting Blocks

The latching section of the HP110 Panic Device does not require a mounting block inside the lock-stile. The bottom pivot bracket is inserted into the 5/16" X 1/8" notch cut into the bottom of the door frame (Figure 28). The Panic Handle is secured with a 5/16"-18 lock-nut from the inside of the stile (Figure 33).

Exterior Pulls are fastened with 3/8"-16 X 5/8" Serrated-Flange Hex Head Screw. FHC thread-locker is recommended (Figure 34).



UNPACKING BACK-TO-BACK PANIC HANDLES WITH CYLINDER LOCK



EXTERIOR HANDLE WITH CYLINDER LOCK-REMOVAL

STEP 1: Locate the (2) #10 flathead Phillips screws near the handle on the top and bottom of the lock housing (Figure 1).

STEP 2: Loosen both screws about 1/4". Screws must remain engaged to the connection forks inside the cylinder housing (Figure 2).

STEP 3: Gently tap each protruding screw head back into the countersunk holes. Doing so will release the exterior handle held in place by the connecting forks and allow the user to pull the it free from the cylinder housing (Figure 3).

STEP 4: Carefully remove the Exterior Handle once any remaining connections have been eliminated (Figure 4).

NOTE: Should the connection fork become separated from the retaining screw remove it from the hole and insert a small punch or drift. Knock the fork loose and retrieve it after separation.

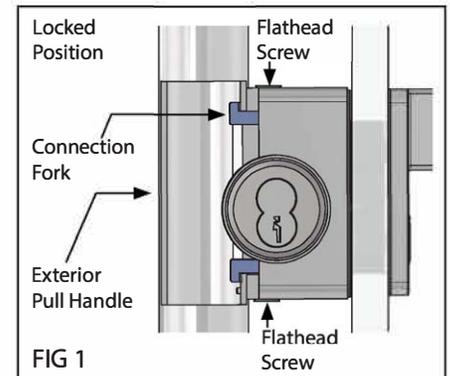


FIG 1

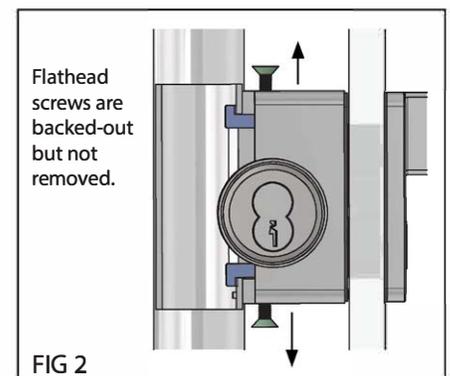


FIG 2

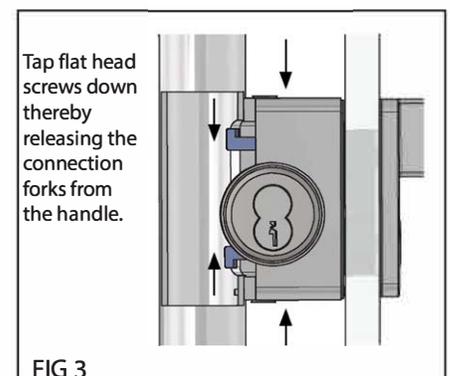


FIG 3

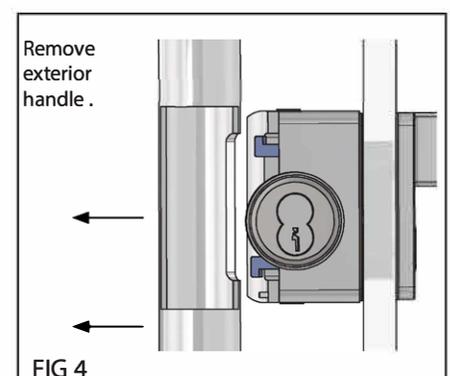


FIG 4

SOLID-CORE DOOR MOUNTED PANIC HANDLES

FHC EXTENSION HARDWARE FOR 1-3/4" - 3" SOLID CORE DOORS

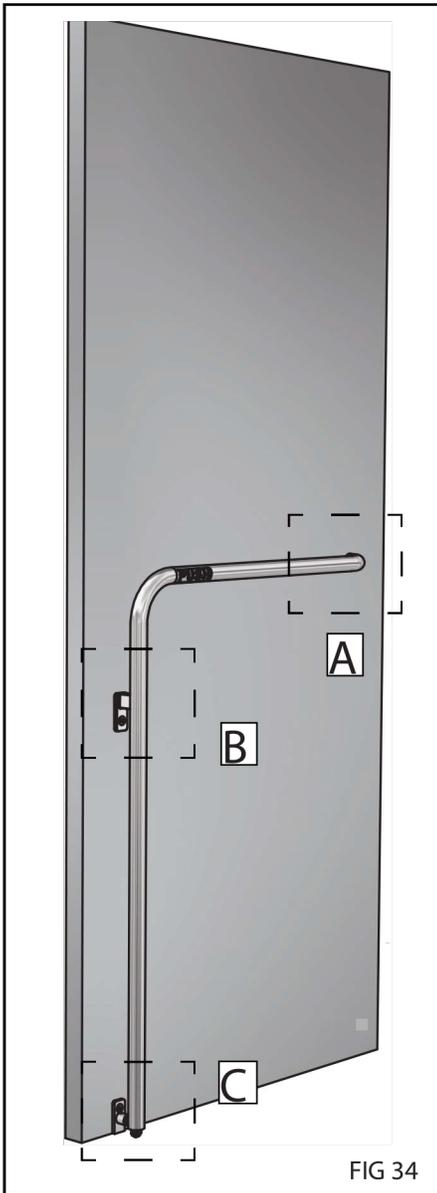


FIG 34

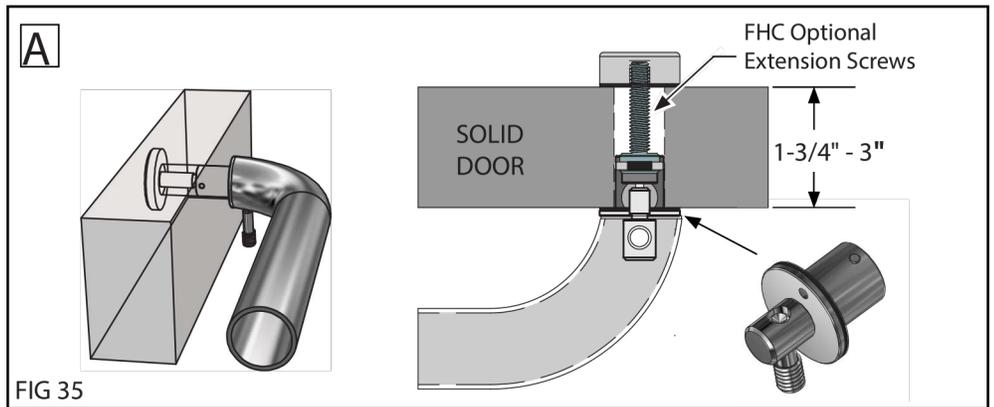


FIG 35

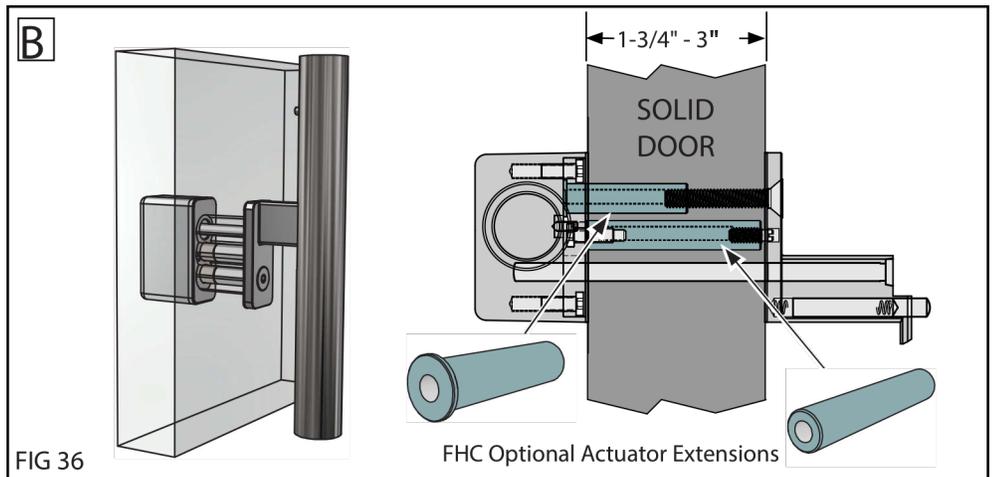


FIG 36

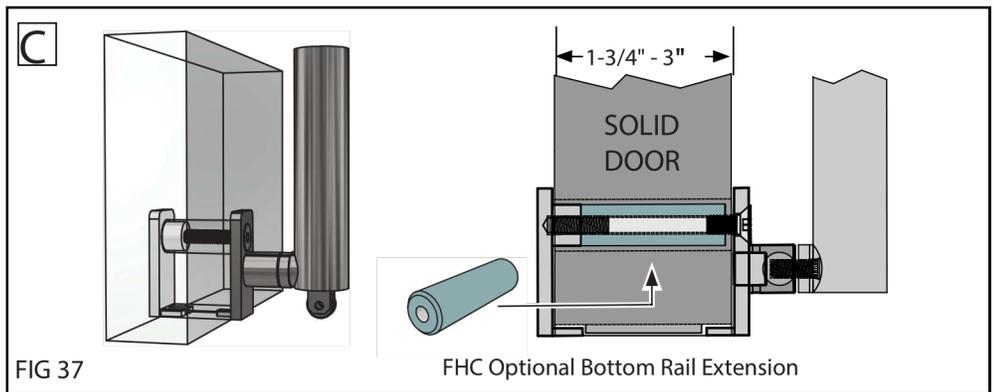


FIG 37

NOTE: Mounting locations must have a solid core.

SOLID DOOR INSTALLATION

The HP110 panic handle is available with a series of adapters that allow door thickness from 1-3/4" to 3".

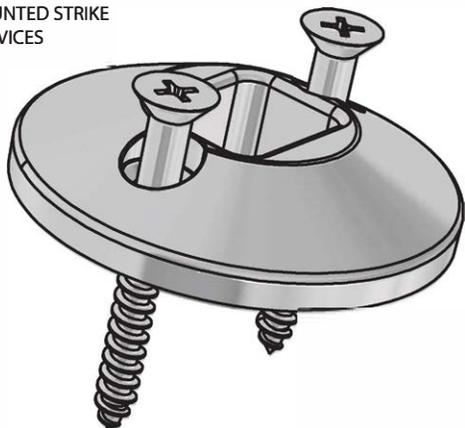
Note: Illustrations on this page are just a small sample of possible configurations available from FHC.

For specific details regarding your system, refer to the provided shop drawings.

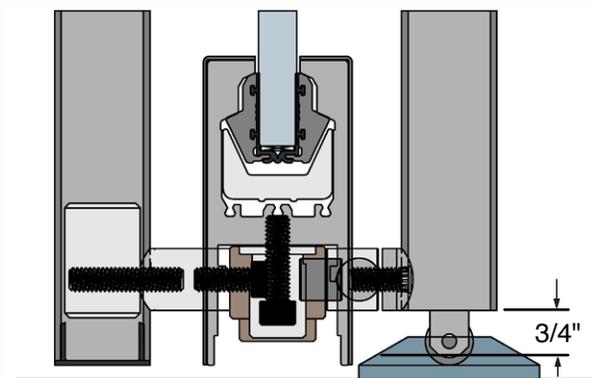
Your configuration may vary from illustrations above. Refer to your shop drawings for specific details.

BOTTOM STRIKES FOR ALL HP110 PANIC HANDLES

HPFMS
FLOOR MOUNTED STRIKE
FOR ALL DEVICES



PANIC
HELD UP



HPTRS
THRESHOLD MOUNTED
STRIKE
FOR ALL DEVICES

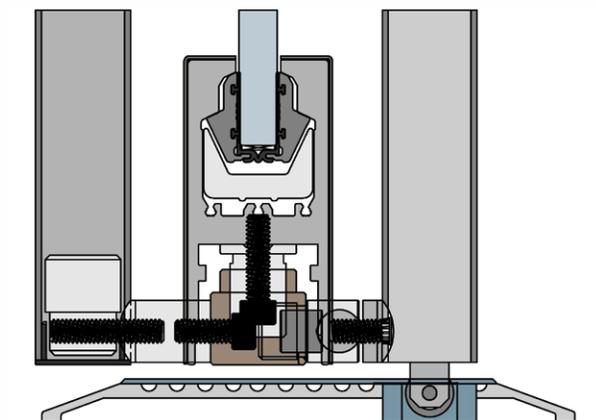
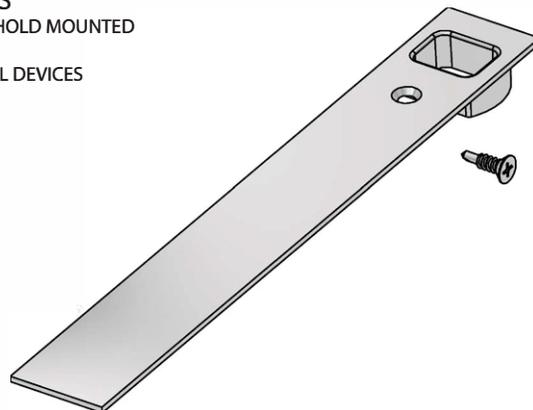


FIG 38

FIG 39